

JumpCloud #2

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Go-based file-integrity monitoring

Client

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Company Background

JumpCloud is a venture-funded company located in Boulder. Founded in 2012 we now have seven engineers working in Go and Node.js backed with MongoDB in an Amazon-based environment. Our offerings are centered around server management, security, and authentication -- controlling who can get onto a machine and allowing administrators to manage the servers with complex orchestration, as well as managing the security posture of the system. More information is available at <http://www.jumpcloud.com>.

Project Goals

OSSEC is a powerful tool to detect changes to a system's configuration and to monitor a set of log files for error conditions. It is used by operations personnel to be alerted to possible breaches on one or across many machines simultaneously. Unfortunately, OSSEC has a high learning curve and is not at all user-friendly. We at JumpCloud would like to emulate the best parts of OSSEC in our product while offering much better ease-of-use and configurability. The first step in this process is to write code that monitors changes across one or many files on a system and alerts appropriately

Specifically we need to:

- *Write GO code that can be configured to notify of changes to a configurable set of files.
- *We will be plugging this code into an existing agent infrastructure, so it will need to implement the well-defined API for receiving configuration, formatting its responses, and communicating back to the server.

Project Skills

- *Basic programming knowledge.
- *Go experience useful but not necessary.